Development of Hydromodification Control Requirements for New and Redevelopment:

The Central Coast Joint Effort



Today's Workshop

Meeting Purpose:

Discuss Joint Effort progress in the development of stormwater control requirements for new and redevelopment projects

Agenda:

- Project background
- •Process for developing Numeric Criteria (Watershed Management Zones, Strategies, etc.)
- Applicability Thresholds and Alternative Compliance

Joint Effort Background

Postconstruction
stormwater
requirements
protect and
improve
downstream
receiving waters



Joint Effort Background

The Water Board proposed the Joint Effort as a regional approach to develop stormwater control requirements

The Joint Effort was initiated in 2009 and has participation from all the Region's MS4 municipalities

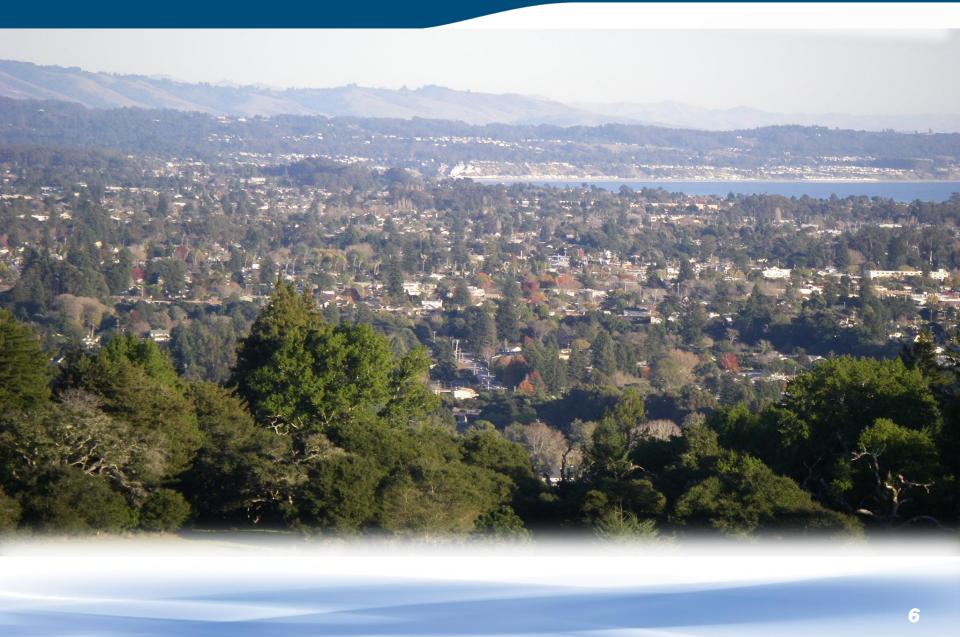
The requirements are planned to go into effect January 2013

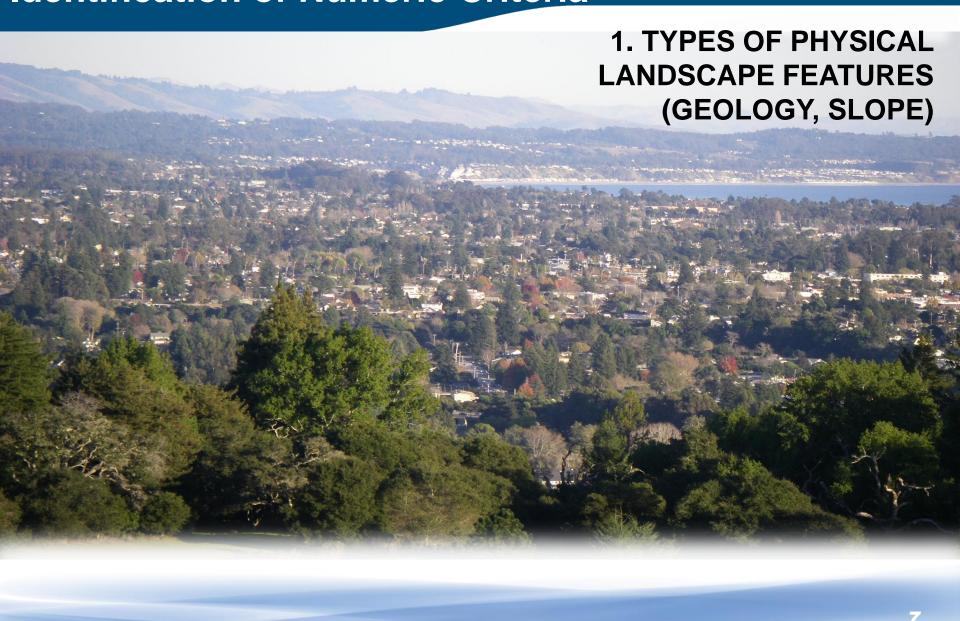


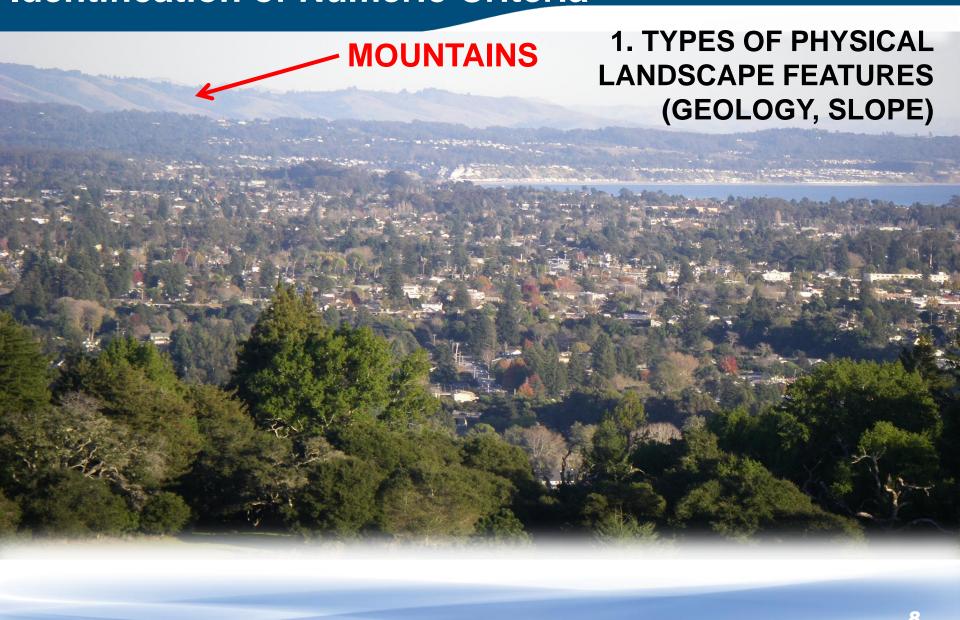
Joint Effort Background

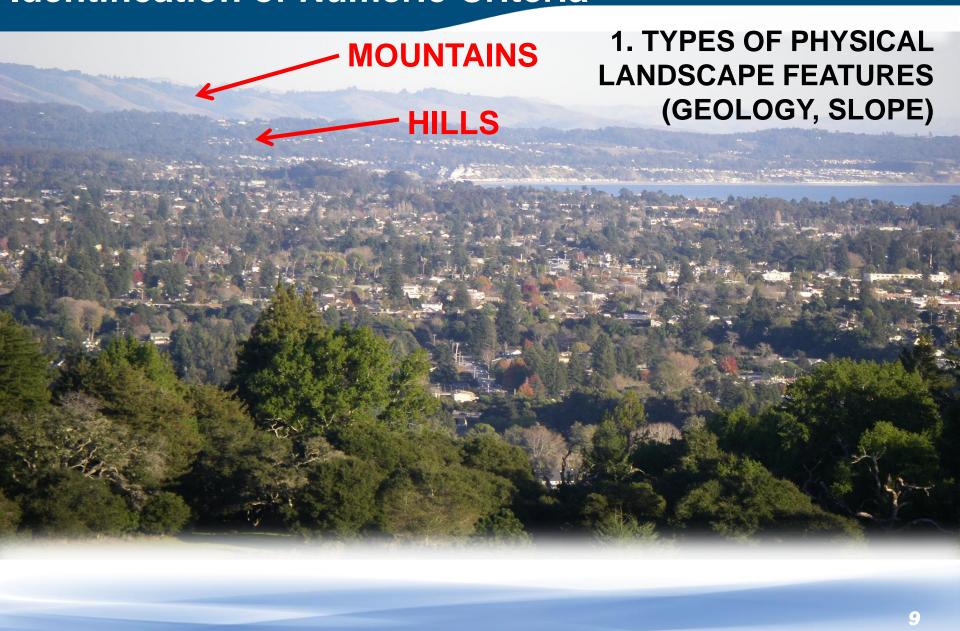
Project Assumptions:

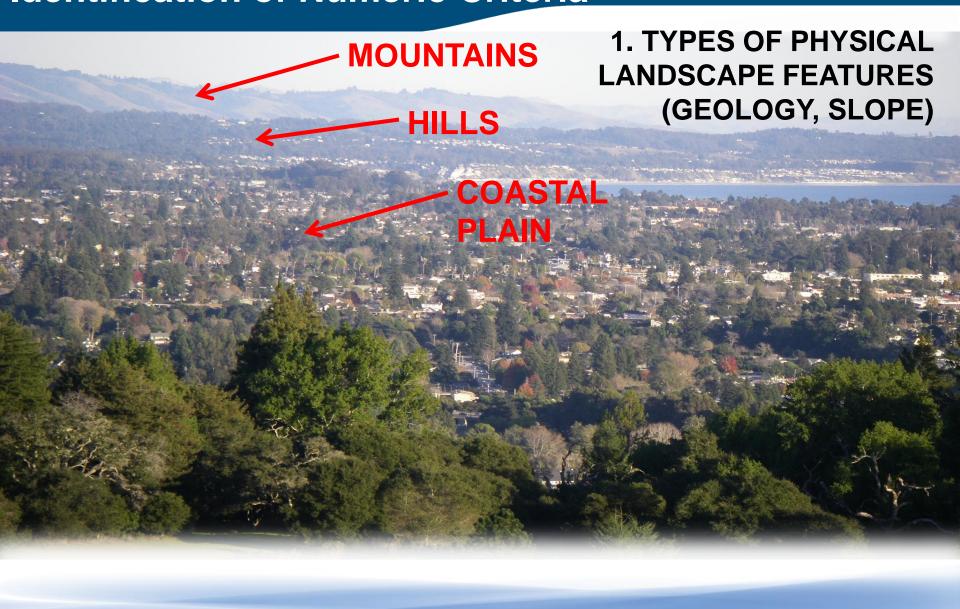
- Landscapes across the Central Coast are not the same and a "one-sizefits-all" approach is not appropriate
- Conventional stormwater management approaches are not adequate to protect/improve receiving waters
- Hydromodification control should focus on the protection/improvement of watershed processes
- Post-construction requirements for hydromodification control must be technically feasible and reasonable (i.e., cost-effective)
- Water quality requirements must be integrated to create the final new/redevelopment requirements

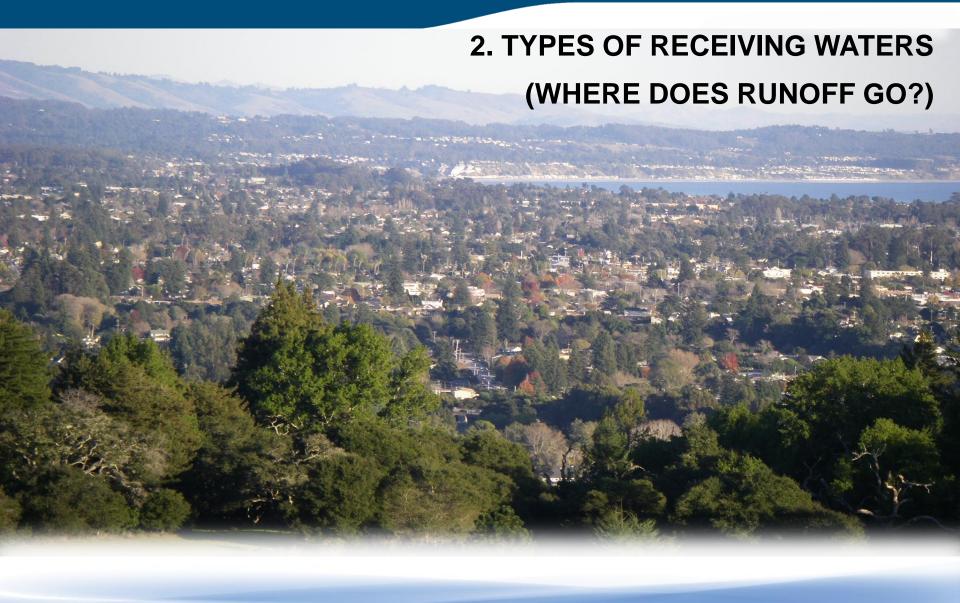


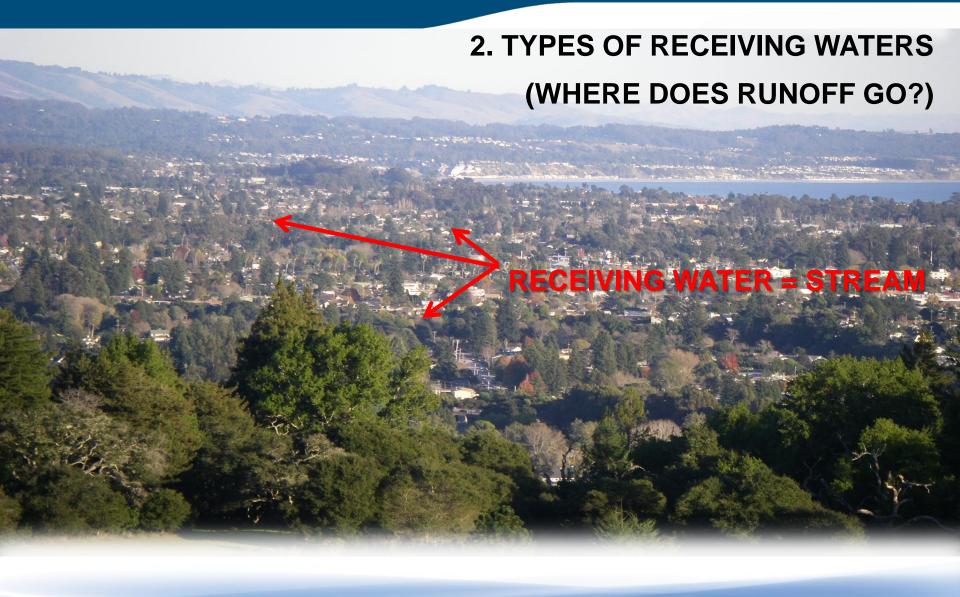


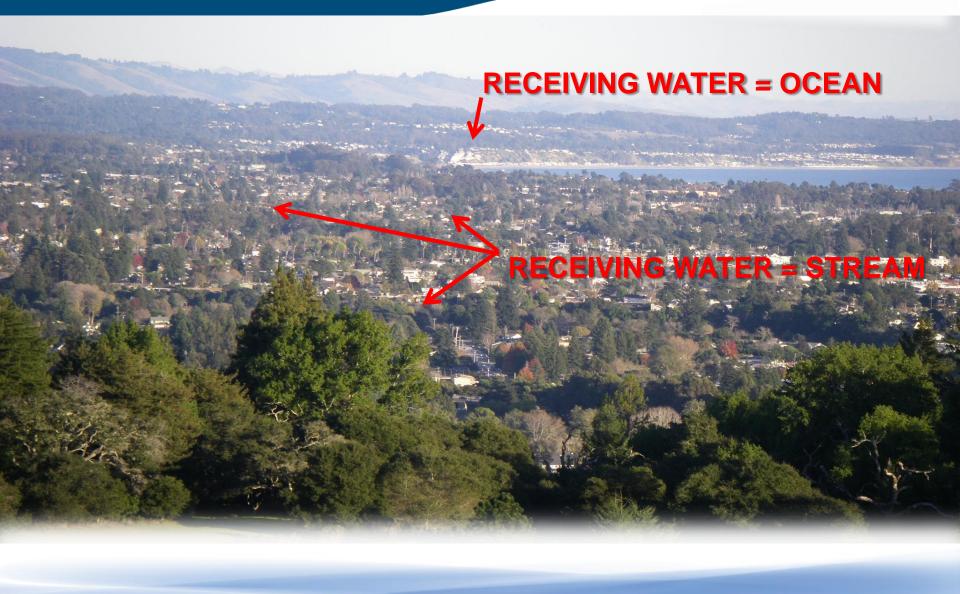


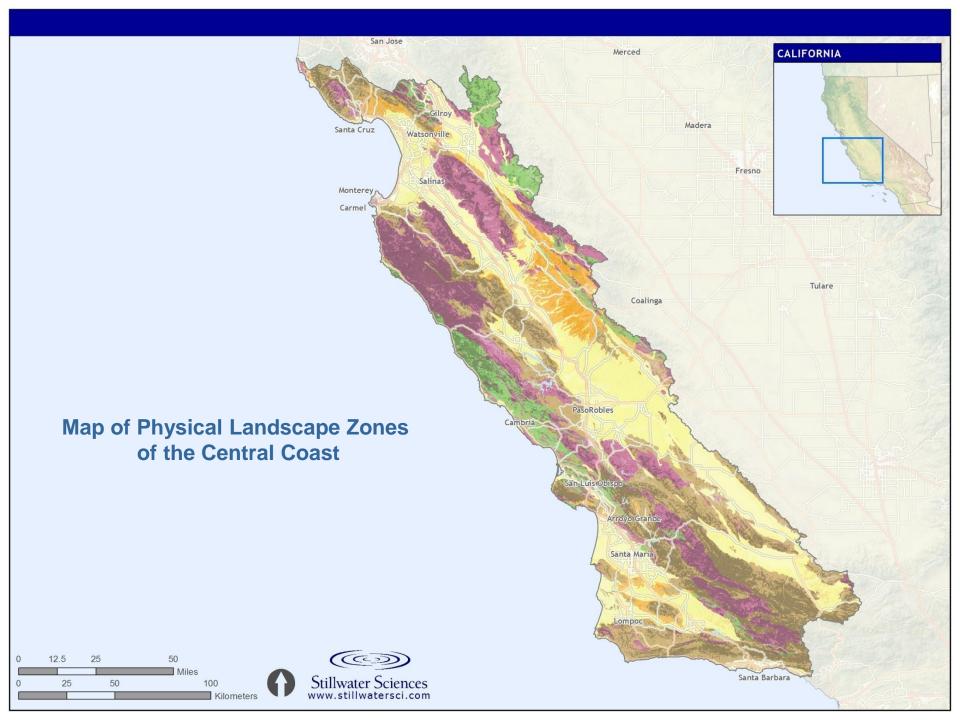


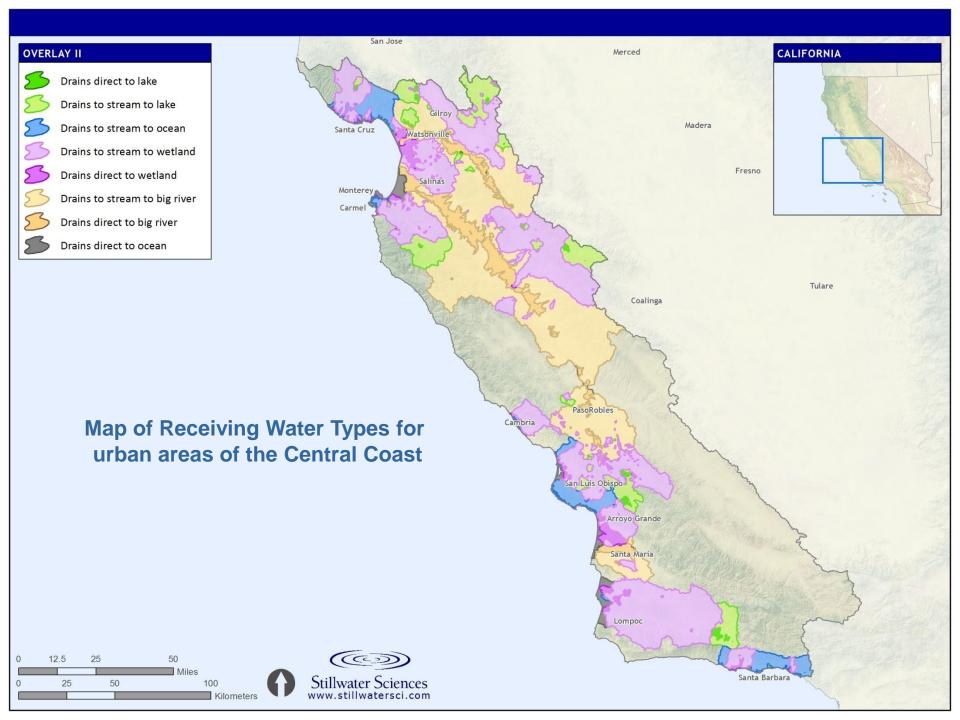


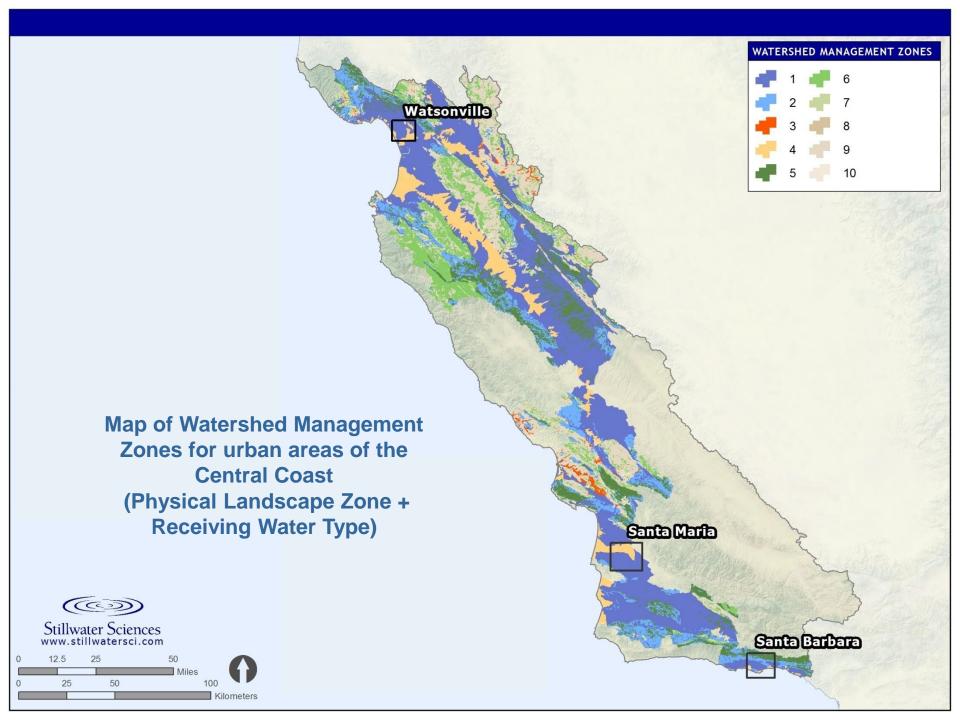












What do we mean by "stormwater management strategies"?

- Flow control (reduces overland flow, increases infiltration)
- Water-quality improvement/protection
- Preservation of natural features, including the influx of sediment and organic material

KEY POINTS:

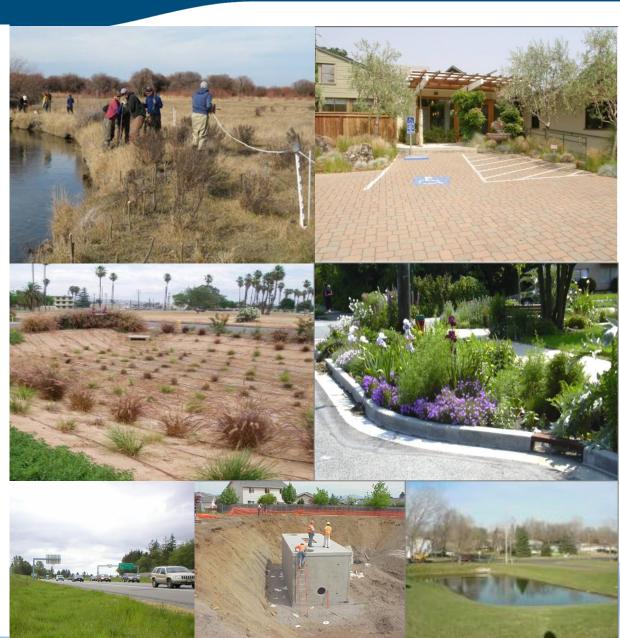
- Watershed processes need protection where they occur; thus, most mitigation will typically occur on-site.
- "Runoff" is not the only process of concern for maintaining healthy watersheds; thus, "flow control" is not the only management strategy that will typically be needed.
- Conversely, not every site needs every process protected; not every receiving water needs the same type or degree of protection.

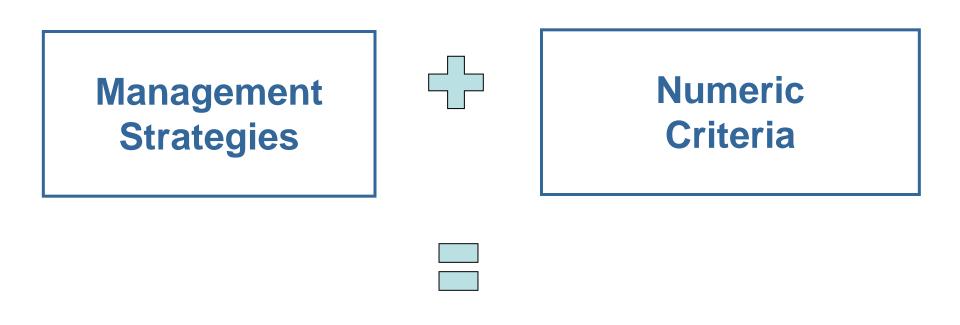
Stormwater management strategies should be tailored to meet the requirements of individual Watershed Management Zones.

For example:

- Areas that drain to small streams need to maintain the watershed processes that regulate flows, maintain water quality, and ensure continued delivery of sediment and organics.
- Areas that support groundwater aquifers need to maintain high rates of infiltration.
- Areas that drain directly to the marine nearshore need to maintain only those processes that support high water quality and delivery of beach sediment.

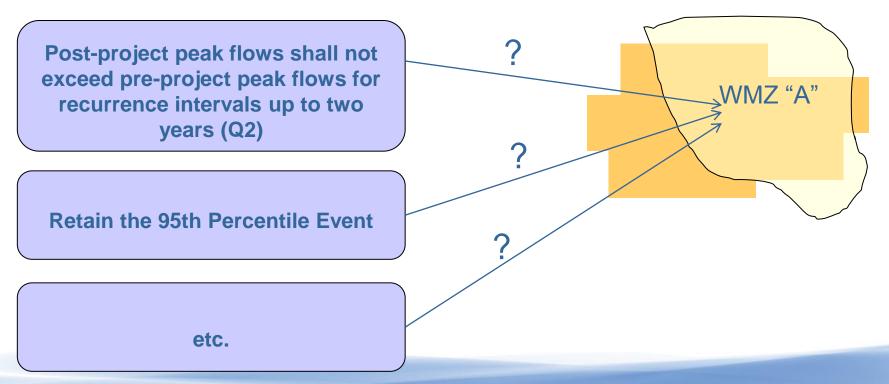






Performance-based Requirements

Evaluation of Existing Numeric Criteria to Determine Suitability in Addressing Central Coast Watershed Management Strategies



Watershed Management Zones, Strategies and Numeric Criteria: Summary

Physical Landscape Zone

Receiving Water Type

WATERSHED MANAGEMENT ZONES



SITE-APPROPRIATE
HYDROMODIFICATION
CONTROL
REQUIREMENTS

The WMZs identify:

- √ Key watershed processes to protect
- ✓ Necessary management strategies to achieve protection

The WMZs inform:

▼The translation of management strategies into numeric performance targets

Discussion: Part 1



Watershed Management Zones

Management Strategies

Numeric Criteria

Applicability Thresholds



Applicability Thresholds

Components of Applicability Thresholds

- Parameter used to trigger requirements
 (e.g., new/replaced impervious surface)
- Exemptions
- Type of requirement at each threshold (e.g., water quality and flow control)

Alternative Compliance

A programmatic approach undertaken by a municipality to provide an alternative to the uniform application of Joint Effort numeric criteria to all projects in their jurisdiction.

Alternative Compliance

Opportunities

- Flexibility to align with broader development objectives
- Ability to meet compliance

Challenges

- Legal framework (location, schedule)
- Equivalency with Joint Effort numeric criteria
- Long term ownership and responsibility
- Identification of suitable mitigation sites

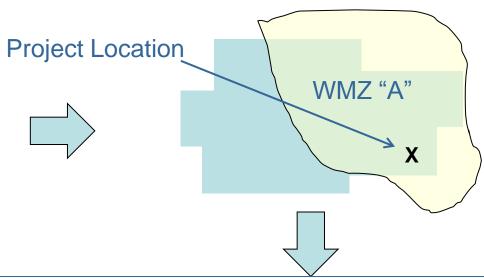
Alternative Compliance is new territory and most likely a Pilot Project for a subset of projects.

Discussion: Part 2



Putting it all Together: understanding project requirements





Post Construction Requirements for WMZ "A"

Amount of new/replaced impervious surface:

(small) ft then _____(insert numeric requirement)

(large) ft then _____(insert numeric requirement)

Schedule

Please see schedule handout

Thank You

